



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Sette *et al.*

Appl. No. 10/031,345

§ 371 Date: July 22, 2002  
(National Phase of PCT/US00/19774;  
Filed: July 19, 2000)

For: **Inducing Cellular Immune  
Responses to Hepatitis C Virus  
Using Peptide and Nucleic Acid  
Compositions**

Confirmation No. 6431

Art Unit: 1644

Examiner: *To be assigned*

Atty. Docket: 2060.0030006/EKS/PAJ/M-M

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**Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450  
Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of all documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 09/357,737, Sette *et al.*, filed July 19, 1999, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following, in regards to non-English language documents **AM1**, **AP1** and **AN2** cited on Form PTO 1449:

Document **AM1**, European Patent Publication No. EP 0 266 513 A1, is in the French language. An English language abstract of document **AM1** was submitted to the United States

Patent and Trademark Office in an Information Disclosure Statement in Appl. No. 09/357,737 on March 18, 2004 as document **AS25**.

Document **AP1**, PCT Patent Publication No. WO 92/21033 A1, is in the German language. An English language abstract of document **AP1** was submitted to the United States Patent and Trademark Office in an Information Disclosure Statement in Appl. No. 09/357,737 on March 18, 2004 as document **AT25**.

Document **AN2**, PCT Patent Publication No. WO 94/11738 A1, is in the German language. An English language abstract of document **AN2** was submitted to the United States Patent and Trademark Office in an Information Disclosure Statement in Appl. No. 09/357,737 on March 18, 2004 as document **AR26**.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not

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exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

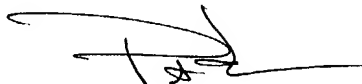
This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

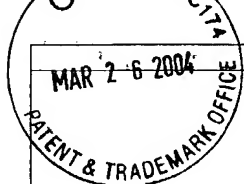
Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Peter A. Jackman  
Attorney for Applicants  
Registration No. 45,986

Date: March 24, 2004  
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FORM PTO-1449

ATTY. DOCKET NO.  
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10/031,345

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1644

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	5,200,320	04/06/1993	Sette <i>et al.</i>			12/07/1987
	AB1	5,503,829	04/02/1996	Ladant <i>et al.</i>			11/07/1994
	AC1	5,662,907	09/02/1997	Kubo <i>et al.</i>			01/25/1994
	AD1	6,034,214	03/07/2000	Boon <i>et al.</i>			12/13/1994
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	EP 0 044 710 A1	01/27/1982	Europe			Yes No
	AM1	EP 0 226 513 A1	06/24/1987	Europe			Yes X No
	AN1	WO 92/02543 A1	02/20/1992	WIPO			Yes No
	AO1	WO 92/12996 A2	08/06/1992	WIPO			Yes No
	AP1	WO 92/21033 A1	11/26/1992	WIPO			Yes X No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	Aichele, P., <i>et al.</i> , "Antiviral cytotoxic T cell response induced by in vivo priming with a free synthetic peptide," <i>J. Exp. Med.</i> 171:1815-1820, Rockefeller University Press (1990)
	AS	1	Alexander, J., <i>et al.</i> , "Derivation of HLA-A11/k <sup>b</sup> Transgenic Mice. Functional CTL Repertoire and Recognition of Human A11-Restricted CTL Epitopes," <i>J. Immunol.</i> 159:4753-4761, The American Association of Immunologists (November 1997)
	AT	1	Bergmann, C.C., <i>et al.</i> , "Differential Effects of Flanking Residues on Presentation of Epitopes from Chimeric Peptides," <i>J. Virol.</i> 68:5306-5310, American Society for Microbiology (August 1994)

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	AL2	WO 93/03764 A1	03/04/1993	WIPO			Yes No
	AM2	WO 94/03205 A1	02/17/1994	WIPO			Yes No
	AN2	WO 94/11738 A1	05/26/1994	WIPO			Yes No X
	AO2	WO 94/20127 A1	09/15/1994	WIPO			Yes No
	AP2	WO 96/03140 A1	02/08/1996	WIPO			Yes No

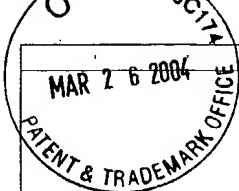
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	2	Bertoni, R., <i>et al.</i> , "Human Histocompatibility Leukocyte Antigen-binding Supermotifs Predict Broadly Cross-reactive Cytotoxic T Lymphocyte Responses in Patients with Acute Hepatitis," <i>J. Clin. Invest.</i> 100:503-513, The American Society for Clinical Investigation, Inc. (August 1997)
AS	2	Bertoni, R., <i>et al.</i> , "Human Class I Supertypes and CTL Repertoires Extend to Chimpanzees," <i>J. Immunol.</i> 161:4447-4455, American Association of Immunologists (October 1998)
AT	2	Bjorkman, P.J., <i>et al.</i> , "Structure of the human class I histocompatibility antigen, HLA-A2," <i>Nature</i> 329:506-512, Macmillan Publishers, Ltd. (1987)

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	AR	<u>3</u>	Bjorkman, P.J., <i>et al.</i> , "The foreign antigen binding site and T cell recognition regions of class I histocompatibility antigens," <i>Nature</i> 329:512-518, Macmillan Publishers, Ltd. (1987)
	AS	<u>3</u>	Buus, S., <i>et al.</i> , "Autologous Peptides Constitutively Occupy the Antigen Binding Site on Ia," <i>Science</i> 242:1045-1047, American Association for the Advancement of Science (1988)
	AT	<u>3</u>	Carreno, B.M., <i>et al.</i> , "HLA-B37 and HLA-A2.1 molecules bind largely nonoverlapping sets of peptides," <i>Proc. Natl. Acad. Sci. USA</i> 87:3420-3424, National Academy Press (1990)

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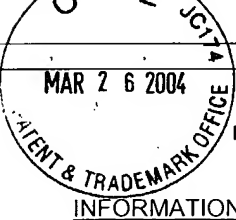
AR	<u>4</u>	Corr, M., <i>et al.</i> , "Endogenous Peptides of a Soluble Major Histocompatibility Complex Class I Molecule, H-2L <sup>d</sup> <sub>S</sub> : Sequence Motif, Quantitative Binding, and Molecular Modeling of the Complex," <i>J. Exp. Med.</i> 176:1681-1692, Rockefeller University Press (December 1992)
AS	<u>4</u>	De Bruijn, M.L.H., <i>et al.</i> , "Peptide loading of empty major histocompatibility complex molecules on RMA-S cells allows the induction of primary cytotoxic T lymphocyte responses," <i>Eur. J. Immunol.</i> 21:2963-2970, VCH Verlagsgesellschaft mbH (1991)
AT	<u>4</u>	Del Val, M., <i>et al.</i> , "Efficient Processing of an Antigenic Sequence for Presentation by MHC Class I Molecules Depends on Its Neighboring Residues in the Protein," <i>Cell</i> 66:1145-1153, Cell Press (1991)

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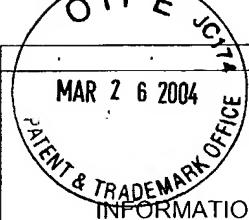
AR	<u>5</u>	Deres, K., <i>et al.</i> , "In vivo priming of virus-specific cytotoxic T lymphocytes with synthetic lipopeptide vaccine," <i>Nature</i> 342:561-564, Macmillan Publishers, Ltd. (1989)
AS	<u>5</u>	DiBrino, M., <i>et al.</i> , "HLA-A1 and HLA-A3 T Cell Epitopes Derived from Influenza Virus Proteins Predicted from Peptide Binding Motifs," <i>J. Immunol.</i> 151:5930-5935, The Association of Immunologists (December 1993)
AT	<u>5</u>	DiBrino, M., <i>et al.</i> , "Endogenous peptides bound to HLA-A3 possess a specific combination of anchor residues that permit identification of potential antigenic peptides," <i>Proc. Natl. Acad. Sci. USA</i> 90:1508-1512, National Academy Press (February 1993)

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	AR	6	Ding, Y-H., <i>et al.</i> , "Two Human T Cell Receptors Bind in a Similar Diagonal Mode to the HLA-A2/Tax Peptide Complex Using Different TCR Amino Acids," <i>Immunity</i> 8:403-11, Cell Press (April 1998)
	AS	6	Eisenlohr, L.C., <i>et al.</i> , "Flanking Sequences Influence the Presentation of an Endogenously Synthesized Peptide to Cytotoxic T Lymphocytes," <i>J. Exp. Med.</i> 175:481-487, The Rockefeller University Press (February 1992)
	AT	6	Engelhard, V.H., "Structure of peptides associated with MHC Class I molecules," <i>Curr. Opin. Immunol.</i> 6:13-23, Current Biology, Ltd. (February 1994)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>1</u>	Falk, K., <i>et al.</i> , "Allele-specific motifs revealed by sequencing of self-peptides eluted from MHC molecules," <i>Nature</i> 351:290-296, Macmillan Publishers, Ltd. (1991)
AS	<u>1</u>	Falk, K., <i>et al.</i> , "MHC peptide motif register. Peptide motifs of HLA-B35 and -B37 molecules," <i>Immunogenetics</i> 38:161-162, Springer-Verlag (April 1993)
AT	<u>1</u>	Falk, K., <i>et al.</i> , "Allele-specific peptide ligand motifs of HLA-C molecules," <i>Proc. Natl. Acad. Sci. USA</i> 90:12005-12009, National Academy Press (December 1993)

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	AR	8	Falk, K., <i>et al.</i> , "Pool sequencing of natural HLA-DR, DQ, and DP ligands reveals detailed peptide motifs, constraints of processing, and general rules," <i>Immunogenetics</i> 39:230-242, Springer-Verlag (February 1994)
	AS	8	Falk, K., <i>et al.</i> , "Peptide motifs of HLA-A1, -A11, -A31, and -A33 molecules," <i>Immunogenetics</i> 40:238-241, Springer-Verlag (July 1994)
	AT	8	Foon, K.A., "Biological Response Modifiers: The New Immunotherapy," <i>Cancer Res.</i> 49:1621-1639, American Association for Cancer Research (1989)

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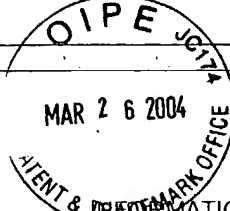
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AR	<u>9</u>	Geysen, H.M., <i>et al.</i> , "Cognitive Features of Continuous Antigenic Determinants," <i>J. Mol. Recognit.</i> 1:32-41, Heyden & Sons, Ltd. (1988)
AS	<u>9</u>	Guo, H.-C., <i>et al.</i> , "Different length peptides bind to HLA-Aw68 similarly at their ends but bulge out in the middle," <i>Nature</i> 360:364-366, Macmillan Publishers, Ltd. (November 1992)
AT	<u>9</u>	Henderson, R.A., <i>et al.</i> , "HLA-A2.1-Associated Peptides from a Mutant Cell Line: A Second Pathway of Antigen Presentation," <i>Science</i> 255:1264-1266, American Association for the Advancement of Science (March 1992)

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<div style="text-align: center;">  </div> <div style="text-align: center;">             FORM PTO-1449              INFORMATION DISCLOSURE STATEMENT           </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ATTY. DOCKET NO. 2060.0030006/EKS/PAJ/M-M</td> <td style="width: 50%;">APPLICATION NO. 10/031,345</td> </tr> <tr> <td colspan="2">APPLICANT Sette <i>et al.</i></td> </tr> <tr> <td colspan="2">§ 371 DATE: July 22, 2002 (National Phase of PCT/US00/19774; Filed July 19, 2000)</td> </tr> <tr> <td colspan="2" style="text-align: right;">GROUP 1644</td> </tr> </table>	ATTY. DOCKET NO. 2060.0030006/EKS/PAJ/M-M	APPLICATION NO. 10/031,345	APPLICANT Sette <i>et al.</i>		§ 371 DATE: July 22, 2002 (National Phase of PCT/US00/19774; Filed July 19, 2000)		GROUP 1644	
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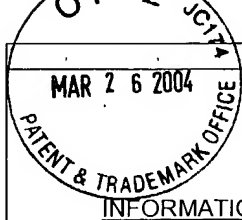
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	AO						Yes No
	AP						Yes No

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	AR	<u>10</u>	Hill, A., <i>et al.</i> , "Characterization of two Epstein-Barr virus epitopes restricted by HLA-B7," <i>Eur. J. Immunol.</i> 25:18-24, VCH Verlagsgesellschaft mbH (January 1995)
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1644

## INFORMATION DISCLOSURE STATEMENT

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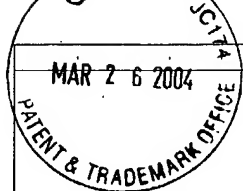
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	AR	<u>11</u>	Jameson, S.C., and Bevan, M.J., "Dissection of major histocompatibility complex (MHC) and T cell receptor contact residues in a K <sup>b</sup> -restricted ovalbumin peptide and an assessment of the predictive power of MHC-binding motifs," <i>Eur. J. Immunol.</i> 22:2663-2667, VCH Verlagsgesellschaft mbH (October 1992)
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	AR	<u>12</u>	Kast, W.M., <i>et al.</i> , "Protection against lethal Sendai virus infection by <i>in vivo</i> priming of virus-specific cytotoxic T lymphocytes with a free synthetic peptide," <i>Proc. Natl. Acad. Sci. USA</i> 88:2283-2287, National Academy Press (1991)
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	AR	<u>13</u>	Lipford, G.B., <i>et al.</i> , "Primary in Vivo Responses to Ovalbumin. Probing the Predictive Value of the K <sup>b</sup> Binding Motif," <i>J. Immunol.</i> 150:1212-1222, The American Association of Immunologists (February 1993)
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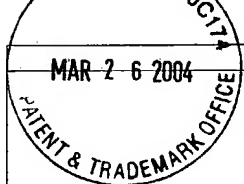
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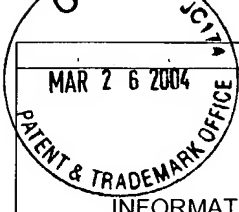
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	AR	<u>15</u>	Pamer, E.G., <i>et al.</i> , "Precise prediction of a dominant class I MHC-restricted epitope of <i>Listeria monocytogenes</i> ," <i>Nature</i> 353:852-855, Macmillan Publishers, Ltd. (1991)
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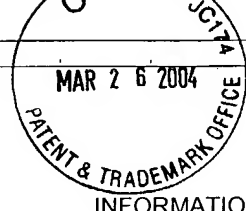
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	AT	16	Rammensee, H-G., <i>et al.</i> , "MHC ligands and peptide motifs: first listing," <i>Immunogenetics</i> 41:178-228, Springer-Verlag (February 1995)

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 <p><b>MAR 26 2004</b></p> <p>PATENT &amp; TRADEMARK OFFICE</p> <p>FORM PTO-1449</p> <p><u>INFORMATION DISCLOSURE STATEMENT</u></p>	Page 17 of 26	
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### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	17	Reddehase, M.J., <i>et al.</i> , "A pentapeptide as minimal antigenic determinant for MHC class I-restricted T lymphocytes," <i>Nature</i> 337 :651-653, Macmillan Publishers, Ltd. (1989)
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	AT	17	Rothbard, J.B., "Major histocompatibility complex-peptide interactions," <i>Curr. Opin. Immunol.</i> 2:99-105, Current Biology, Ltd. (1989)

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AR	18	Röttschke, O., <i>et al.</i> , "Isolation and analysis of naturally processed viral peptides as recognized by cytotoxic T cells," <i>Nature</i> 348:252-254, Macmillan Publishers, Ltd. (1990)
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AT	18	Röttschke, O., and Falk, K., "Naturally-occurring peptide antigens derived from the MHC class-I-restricted processing pathway," <i>Immunol. Today</i> 12:447-455, Elsevier Science Publishers, Ltd. (1991)

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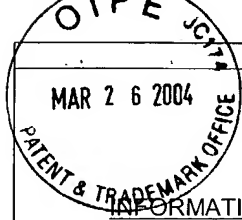
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	AP						Yes No

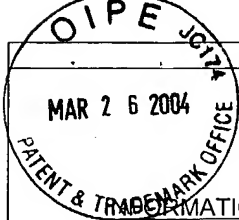
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	22	Sherman, L.A., <i>et al.</i> , "Extracellular Processing of Peptide Antigens That Bind Class I Major Histocompatibility Molecules," <i>J. Exp. Med.</i> 175:1221-1226, The Rockefeller University Press (May 1992)
	AS	22	Shimojo, N., <i>et al.</i> , "Specificity of peptide binding by the HLA-A2.1 molecule," <i>J. Immunol.</i> 143:2939-2947, The American Association of Immunologists (1989)
	AT	22	Sidney, J., <i>et al.</i> , "Several HLA Alleles Share Overlapping Peptide Specificities," <i>J. Immunol.</i> 154:247-259, The American Association of Immunologists (January 1995)

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FORM PTO-1449

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2060.0030006/EKS/PAJ/M-MAPPLICATION NO.  
10/031,345APPLICANT  
Sette *et al.*§ 371 DATE: July 22, 2002  
(National Phase of PCT/US00/19774; Filed July 19, 2000)GROUP  
1644

## INFORMATION DISCLOSURE STATEMENT

## U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>23</u>	Threlkeld, S.C., <i>et al.</i> , "Degenerate and Promiscuous Recognition by CTL of Peptides Presented by the MHC Class I A3-like Superfamily. Implications for Vaccine Development," <i>J. Immunol.</i> 159:1648-1657, The American Association of Immunologists (August 1997)
	AS	<u>23</u>	Wentworth, P.A., <i>et al.</i> , "Differences and similarities in the A2.1-restricted cytotoxic T cell repertoire in humans and human leukocyte antigen-transgenic mice," <i>Eur. J. Immunol.</i> 26:97-101, VCH Verlagsgesellschaft mbH (January 1996)
	AT	<u>23</u>	Whitton, J.L., <i>et al.</i> , "Molecular Analyses of a Five-Amino-Acid Cytotoxic T-Lymphocyte (CTL) Epitope: an Immunodominant Region Which Induces Nonreciprocal CTL Cross-Reactivity," <i>J. Virol.</i> 63:4303-4310, American Society for Microbiology (1989)

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	AR	24	Yewdell, J.W., and Bennink, J.R., "Cell Biology of Antigen Processing and Presentation to Major Histocompatibility Complex Class I Molecule-Restricted T Lymphocytes," <i>Adv. Immunol.</i> 52:1-123, Academic Press (July 1992)
	AS	24	York, I.A., and Rock, K.L., "Antigen processing and presentation by the class I major histocompatibility complex," <i>Annu. Rev. Immunol.</i> 14:369-396, Annual Reviews, Inc. (April 1996)
	AT	24	Zhang, Q-J., <i>et al.</i> , "An HLA-A11-specific motif in nonamer peptides derived from viral and cellular proteins," <i>Proc. Natl. Acad. Sci. USA</i> 90:2217-2221, National Academy Press (March 1993)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>25</u>	Parker, K.C., <i>et al.</i> , "Scheme for Ranking Potential HLA-A2 Binding Peptides Based on Independent Binding of Individual Peptide Side-Chains," <i>J. Immunol.</i> 152:163-175, The American Association of Immunologists (January 1994)
	AS	<u>25</u>	Dialog File 351, Accession No. 7180926, Derwent WPI English language abstract for EP 0 226 513 (Document AM1)
	AT	<u>25</u>	Dialog File 351, Accession No. 9263567, Derwent WPI English language abstract for WO 92/21033 (Document AP1)

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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>26</u>	Dialog File 351, Accession No. 9888606, Derwent WPI English language abstract for WO 94/11738 (Document AN2)
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